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PASSWORD:
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NEWS	1		Web Page URLs for STN Seminar Schedule - N. America
NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	FEB 28	PATDPAFULL - New display fields provide for legal status data from INPADOC
NEWS	4	FEB 28	BABS - Current-awareness alerts (SDIs) available
NEWS	5	MAR 02	GBFULL: New full-text patent database on STN
NEWS	6	MAR 03	REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS	7	MAR 03	MEDLINE file segment of TOXCENTER reloaded
NEWS	8	MAR 22	KOREAPAT now updated monthly; patent information enhanced
NEWS	9	MAR 22	Original IDE display format returns to REGISTRY/ZREGISTRY
NEWS	10	MAR 22	PATDPASPC - New patent database available
NEWS	11	MAR 22	REGISTRY/ZREGISTRY enhanced with experimental property tags
NEWS	12	APR 04	EPFULL enhanced with additional patent information and new fields
NEWS	13	APR 04	EMBASE - Database reloaded and enhanced
NEWS	14	APR 18	New CAS Information Use Policies available online
NEWS	15	APR 25	Patent searching, including current-awareness alerts (SDIs), based on application date in CA/CAplus and USPATFULL/USPAT2 may be affected by a change in filing date for U.S. applications.
NEWS	16	APR 28	Improved searching of U.S. Patent Classifications for U.S. patent records in CA/CAplus
NEWS	17	MAY 23	GBFULL enhanced with patent drawing images
NEWS	18	MAY 23	REGISTRY has been enhanced with source information from CHEMCATS
NEWS	19	JUN 06	STN Patent Forums to be held in June 2005
NEWS	20	JUN 06	The Analysis Edition of STN Express with Discover! (Version 8.0 for Windows) now available
NEWS	21	JUN 13	RUSSIAPAT: New full-text patent database on STN
NEWS	22	JUN 13	FRFULL enhanced with patent drawing images
NEWS	23	JUN 20	MEDICONF to be removed from STN
NEWS	24	JUN 27	MARPAT displays enhanced with expanded G-group definitions and text labels

NEWS EXPRESS	JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
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NEWS LOGIN	Welcome Banner and News Items
NEWS PHONE	Direct Dial and Telecommunication Network Access to STN
NEWS WWW	CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 17:26:07 ON 30 JUN 2005

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 17:26:16 ON 30 JUN 2005
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 29 JUN 2005 HIGHEST RN 853295-05-3
DICTIONARY FILE UPDATES: 29 JUN 2005 HIGHEST RN 853295-05-3

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TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

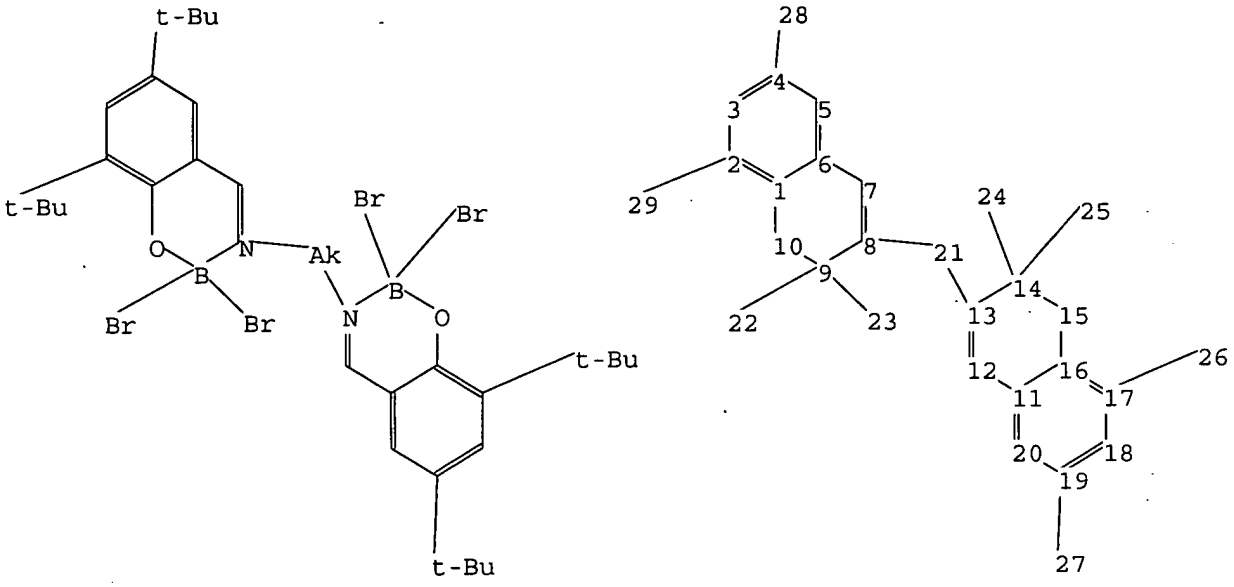
Please note that search-term pricing does apply when conducting SmartSELECT searches.

****
* *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
* *
****

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
Uploading C:\Program Files\Stnexp\Queries\10774619.str



chain nodes :
21 22 23 24 25 26 27 28 29
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20
chain bonds :
2-29 4-28 8-21 9-22 9-23 13-21 14-24 14-25 17-26 19-27
ring bonds :
1-2 1-6 1-10 2-3 3-4 4-5 5-6 6-7 7-8 8-9 9-10 11-12 11-16 11-20 12-13
13-14 14-15 15-16 16-17 17-18 18-19 19-20
exact/norm bonds :
1-10 6-7 7-8 8-9 8-21 9-10 11-12 12-13 13-14 13-21 14-15 15-16
exact bonds :
2-29 4-28 9-22 9-23 14-24 14-25 17-26 19-27
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 11-16 11-20 16-17 17-18 18-19 19-20
isolated ring systems :
containing 1 : 11 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:CLASS 22:CLASS 23:CLASS 24:CLASS 25:CLASS 26:CLASS 27:CLASS
28:CLASS 29:CLASS

L1 STRUCTURE UPLOADED

=> s l1
SAMPLE SEARCH INITIATED 17:26:36 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE

```
100.0% PROCESSED       0 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:            0 TO        0
PROJECTED ANSWERS:               0 TO        0

L2            0 SEA SSS SAM L1

=> s l1 ful
FULL SEARCH INITIATED 17:26:42 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      6 TO ITERATE

100.0% PROCESSED       6 ITERATIONS                                5 ANSWERS
SEARCH TIME: 00.00.01

L3            5 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   161.33     161.54

FILE 'CAPLUS' ENTERED AT 17:26:48 ON 30 JUN 2005
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FILE COVERS 1907 - 30 Jun 2005  VOL 143 ISS 1
FILE LAST UPDATED: 29 Jun 2005  (20050629/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

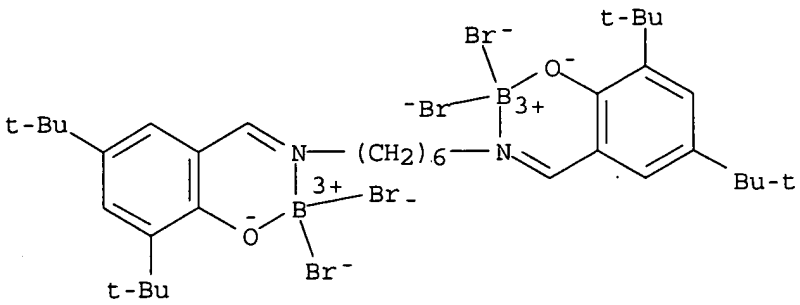
=> s l3
L4            2 L3

=> d l4 ibib hitstr abs 1-2

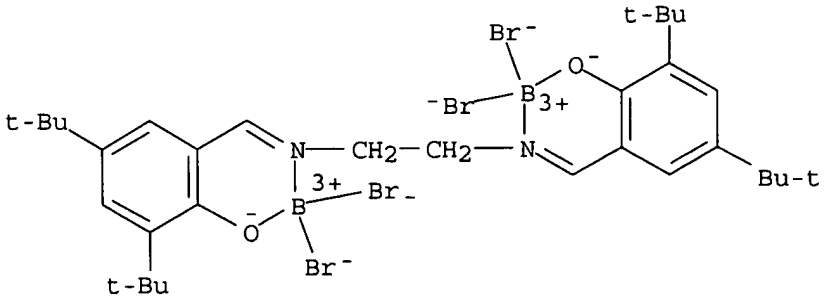
L4   ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER:         2003:49058  CAPLUS
DOCUMENT NUMBER:          139:149666
TITLE:                    Dealkylation with boron bromide chelates
AUTHOR(S):                Keizer, Timothy S.; De Pue, Lauren J.; Parkin, Sean;
                          Atwood, David A.
```

CORPORATE SOURCE: Department of Chemistry, University of Kentucky, Lexington, KY, 40506-0055, USA
SOURCE: Journal of Organometallic Chemistry (2003), 666(1-2), 103-109
CODEN: JORCAI; ISSN: 0022-328X
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 139:149666

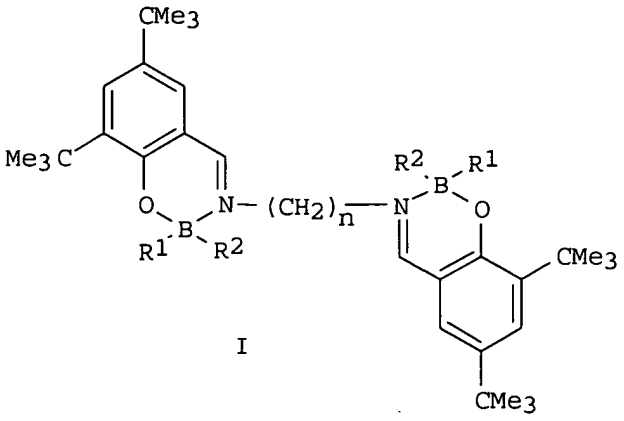
IT **570414-19-6P**
RL: CAT (Catalyst use); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(mol. structure, phosphate dealkylation; preparation, structure and phosphate dealkylation activity of boron bromide Schiff base acidic binuclear chelates)
RN 570414-19-6 CAPLUS
CN Boron, tetrabromo[μ-[[2,2'-[1,6-hexanediylbis[(nitrilo-κN)methylidyne]]bis[4,6-bis(1,1-dimethylethyl)phenolato-κO]](2-)]]di- (9CI) (CA INDEX NAME)



IT **570414-18-5P**
RL: CAT (Catalyst use); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(phosphate dealkylation; preparation, structure and phosphate dealkylation activity of boron bromide Schiff base acidic binuclear chelates)
RN 570414-18-5 CAPLUS
CN Boron, tetrabromo[μ-[[2,2'-[1,2-ethanediylbis[(nitrilo-κN)methylidyne]]bis[4,6-bis(1,1-dimethylethyl)phenolato-κO]](2-)]]di- (9CI) (CA INDEX NAME)



GI



I

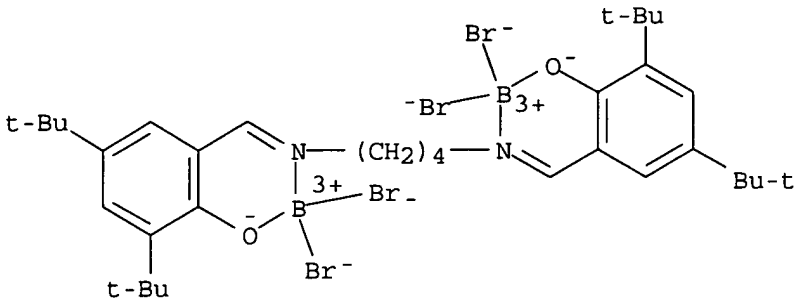
AB Potential two-center Lewis acid compds., bis-salicylimine boron bromide complexes, were prepared and their activity in phosphate dealkylation reaction was examined Compds. (I) (1-6; 1, 2: R1 = R2 = Br, N = 2, 6; 3-6: R1 = p-tolyl, R2 = Br, n = 2, 3, 4, 6) were prepared by BBr_3 bromination of corresponding methoxy-precursors (I, R1 = R2 = OMe or R1 = p-tolyl, R2 = OMe). Mono-chelate dibromo[2,4-di-tert-butyl-2-(tert-butylimino)methylphenolato-O,N]boron (7) was also prepared from corresponding dimethoxy-complex. These compds. are active towards the dealkylation of alkyl phosphates and are catalytic when stoichiometric amts. of BBr_3 and tri-Me phosphate are introduced to the chelate ligand. All of the compds. were characterized 1H- and 11B-NMR, IR, MS; x-ray crystal structure of 2 is reported.

REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2002:106412 CAPLUS
DOCUMENT NUMBER: 136:309952
TITLE: Catalytic Dealkylation of Phosphates with Binuclear Boron Compounds
AUTHOR(S): Keizer, Timothy S.; De Pue, Lauren J.; Parkin, Sean; Atwood, David A.
CORPORATE SOURCE: Department of Chemistry, University of Kentucky, Lexington, KY, 40506-0055, USA
SOURCE: Journal of the American Chemical Society (2002), 124(9), 1864-1865
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:309952
IT **412014-89-2P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and crystal structure of)
RN 412014-89-2 CAPLUS
CN Boron, tetrabromo[μ-[[2,2'-[1,4-butanediylbis[(nitrilo-κN)methylidyne]]bis[4,6-bis(1,1-dimethylethyl)phenolato-κO]](2-)]]di-, compd. with methylbenzene (1:2) (9CI) (CA INDEX NAME)

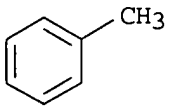
CM 1

CRN 412014-87-0
CMF C34 H50 B2 Br4 N2 O2
CCI CCS

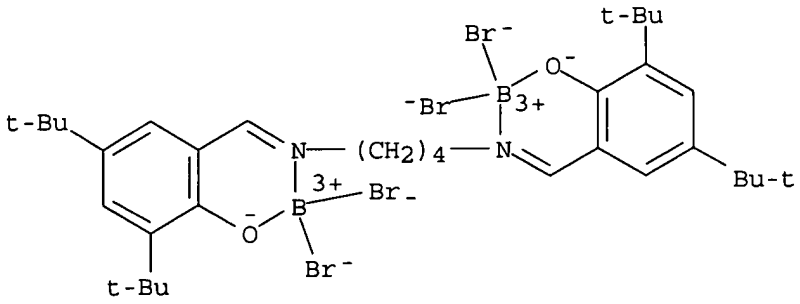


CM 2

CRN 108-88-3
CMF C7 H8

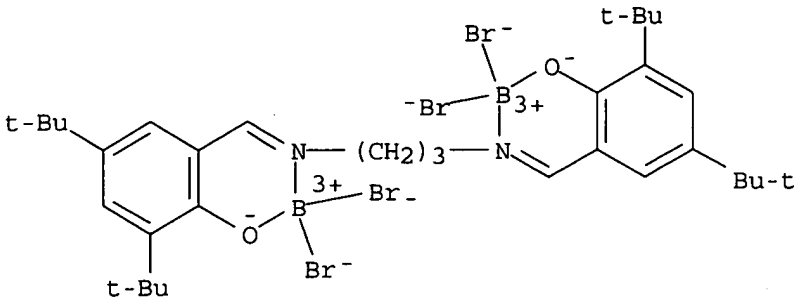


IT **412014-87-0P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and mol. structure of)
RN 412014-87-0 CAPLUS
CN Boron, tetrabromo[μ-[[2,2'-[1,4-butanediylbis[(nitrilo-κN)methylidyne]]bis[4,6-bis(1,1-dimethylethyl)phenolato-κO]](2-)]]di- (9CI) (CA INDEX NAME)



IT **412014-86-9P**
RL: CAT (Catalyst use); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation, catalyst for dealkylation of phosphates, and reactivity of)
RN 412014-86-9 CAPLUS
CN Boron, tetrabromo[μ-[[2,2'-[1,3-propanediylbis[(nitrilo-κN)methylidyne]]bis[4,6-bis(1,1-dimethylethyl)phenolato-κO]](2-

)]]di- (9CI) (CA INDEX NAME)



AB The Salen(tBu) (N,N'-propylenebis(3,5-di-tert-butyl(2-hydroxy)benzylidenimine)) ligand and its derivs. were used to prepare binuclear boron complexes. These compds. have the formula, L(BBr2)2 (L = Salpen(tBu) and Salben(tBu) (N,N'-butylenebis(3,5-di-tert-butyl(2-hydroxy)benzylidenimine))). These are formed from the reaction of the corresponding L[B(OMe)2]2 with BBr3. They represent a new type of binuclear boron compound These compds. are active toward the dealkylation of many phosphates. Thus, (OMe)3P(O) is %89 dealkylated in the presence of Salpen(tBu)(BBr2)2. They are also catalytically active with a stoichiometric amount of BBr3 to trimethylphosphate.

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	10.78	172.32

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.46	-1.46

STN INTERNATIONAL LOGOFF AT 17:28:09 ON 30 JUN 2005

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LOGINID:ssspta1201txs

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NEWS 2 "Ask CAS" for self-help around the clock

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                 data from INPADOC
NEWS  4  FEB 28  BABS - Current-awareness alerts (SDIs) available
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NEWS  12 APR 04  EPFULL enhanced with additional patent information and new
                 fields
NEWS  13 APR 04  EMBASE - Database reloaded and enhanced
NEWS  14 APR 18  New CAS Information Use Policies available online
NEWS  15 APR 25  Patent searching, including current-awareness alerts (SDIs),
                 based on application date in CA/CAplus and USPATFULL/USPAT2
                 may be affected by a change in filing date for U.S.
                 applications.
NEWS  16 APR 28  Improved searching of U.S. Patent Classifications for
                 U.S. patent records in CA/CAplus
NEWS  17 MAY 23  GBFULL enhanced with patent drawing images
NEWS  18 MAY 23  REGISTRY has been enhanced with source information from
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                 (Version 8.0 for Windows) now available
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NEWS  22 JUN 13  FRFULL enhanced with patent drawing images
NEWS  23 JUN 20  MEDICONF to be removed from STN
NEWS  24 JUN 27  MARPAT displays enhanced with expanded G-group definitions
                 and text labels

NEWS EXPRESS  JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT
              MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
              AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

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=> file caplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                               0.21       0.21
```

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FILE COVERS 1907 - 30 Jun 2005  VOL 143 ISS 1
FILE LAST UPDATED: 29 Jun 2005  (20050629/ED)

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  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

=> s chelated borate or borate chelate
          9034 CHELATED
         61383 BORATE
         10673 BORATES
         65473 BORATE
                 (BORATE OR BORATES)
             3 CHELATED BORATE
                 (CHELATED(W)BORATE)
         61383 BORATE
         10673 BORATES
         65473 BORATE
                 (BORATE OR BORATES)
         42713 CHELATE
         26602 CHELATES
         56625 CHELATE
                 (CHELATE OR CHELATES)
            29 BORATE CHELATE
                 (BORATE(W)CHELATE)
L1          32 CHELATED BORATE OR BORATE CHELATE

=> s l1 and (halide or halogen or astatine)
        148057 HALIDE
        123372 HALIDES
        214911 HALIDE
                 (HALIDE OR HALIDES)
        103635 HALOGEN
         21028 HALOGENS
        114256 HALOGEN
                 (HALOGEN OR HALOGENS)
          1587 ASTATINE
             2 ASTATINES
          1587 ASTATINE
                 (ASTATINE OR ASTATINES)
L2           0 L1 AND (HALIDE OR HALOGEN OR ASTATINE)
```

```
=> s chelate
         42713 CHELATE
         26602 CHELATES
L3       56625 CHELATE
                 (CHELATE OR CHELATES)

=> s l3 and (boron or aluminum or gallium or indium or tellurium)
        214396 BORON
           263 BORONS
        214479 BORON
                 (BORON OR BORONS)
        880570 ALUMINUM
           297 ALUMINUMS
        880632 ALUMINUM
                 (ALUMINUM OR ALUMINUMS)
        281184 GALLIUM
            19 GALLIUMS
        281184 GALLIUM
                 (GALLIUM OR GALLIUMS)
        181489 INDIUM
            11 INDIUMS
        181492 INDIUM
                 (INDIUM OR INDIUMS)
         45890 TELLURIUM
            14 TELLURIUMS
         45893 TELLURIUM
                 (TELLURIUM OR TELLURIUMS)
L4        4809 L3 AND (BORON OR ALUMINUM OR GALLIUM OR INDIUM OR TELLURIUM)

=> s l4 and (halide or halogen or astatine or flurine or chlorine or bromine or
iodine)
        148057 HALIDE
        123372 HALIDES
        214911 HALIDE
                 (HALIDE OR HALIDES)
        103635 HALOGEN
         21028 HALOGENS
        114256 HALOGEN
                 (HALOGEN OR HALOGENS)
          1587 ASTATINE
             2 ASTATINES
          1587 ASTATINE
                 (ASTATINE OR ASTATINES)
            13 FLURINE
        124254 CHLORINE
           758 CHLORINES
        124742 CHLORINE
                 (CHLORINE OR CHLORINES)
         49140 BROMINE
           158 BROMINES
         49237 BROMINE
                 (BROMINE OR BROMINES)
        127621 IODINE
           194 IODINES
        127695 IODINE
                 (IODINE OR IODINES)
L5         281 L4 AND (HALIDE OR HALOGEN OR ASTATINE OR FLURINE OR CHLORINE OR
               BROMINE OR IODINE)
```

```
=> s l5 and (ssalen or salpen or salben or salhen)
             0 SSALEN
            21 SALPEN
            15 SALBEN
             5 SALHEN
L6           1 L5 AND (SSALEN OR SALPEN OR SALBEN OR SALHEN)

=> s l5 and salen
          2669 SALEN
            41 SALENS
          2676 SALEN
                 (SALEN OR SALENS)
L7           1 L5 AND SALEN

=> dup rem l6 l7
PROCESSING COMPLETED FOR L6
PROCESSING COMPLETED FOR L7
L8           1 DUP REM L6 L7 (1 DUPLICATE REMOVED)

=> d l8 ibib hitstr abs

L8   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2005 ACS on STN  DUPLICATE 1
ACCESSION NUMBER:         2003:18368  CAPLUS
DOCUMENT NUMBER:          138:330730
TITLE:                    Boron halide chelate
                          compounds and their activity towards the demethylation
                          of trimethylphosphate
AUTHOR(S):                Keizer, Timothy S.; De Pue, Lauren J.; Parkin, Sean;
                          Atwood, David A.
CORPORATE SOURCE:         Department of Chemistry, University of Kentucky,
                          Lexington, KY, 40506-0055, USA
SOURCE:                   Canadian Journal of Chemistry (2002), 80(11),
                          1463-1468
                          CODEN: CJCHAG; ISSN: 0008-4042
PUBLISHER:                National Research Council of Canada
DOCUMENT TYPE:            Journal
LANGUAGE:                 English
OTHER SOURCE(S):          CASREACT 138:330730
AB   Salen(t-Bu)H2 N,N'-ethylenebis(3,5-di-tert-butyl(2-
     hydroxy)benzylidenimine) and its derivs. were used to prepare B compds.
     L(BCl2)2 (L = salen(t-Bu) (1), salpen(t-Bu) (2), salben
     (t-Bu) (3), salpten(t-Bu) (4), salhen(t-Bu) (5)). These are
     formed from the reaction of the corresponding L[B(OMe)2]2 with BCl3. In
     addition to being a new type of B compound, they are also potential two-point
     Lewis acids. Indeed, they demonstrate Lewis acidic behavior in the
     dealkylation of trimethylphosphate. All of the compds. were characterized
     by m.p., elemental anal., 1H and 11B NMR, IR, MS, and in the case of 2 by
     x-ray crystallog.
REFERENCE COUNT:          30    THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS
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